

$$\textcircled{6} \quad \begin{array}{r} -4.2x - 6.5 = -14.06 \\ +6.5 \quad +6.5 \end{array}$$

$$\begin{array}{r} -4.2x = -7.56 \\ \hline -4.2 \end{array} \quad \begin{array}{r} -7.56 \\ \hline -4.2 \end{array}$$

$$x = 1.8$$

$\textcircled{7}$

$$\textcircled{7} \left( \frac{7}{2}x - 1 \right) = (2x + 5)$$

$$\begin{array}{r} 7x - 2 \\ -4x \end{array} = \begin{array}{r} 4x + 10 \\ -4x \end{array}$$

$$\begin{array}{r} 3x - 2 \\ +2 \end{array} = \begin{array}{r} 10 \\ +2 \end{array}$$

$$3x = 12$$

$$\boxed{x = 4}$$

⑩  $\frac{3}{4} \left( \frac{4}{5}x - 2 \right) = \frac{11}{4}$

$$\left( \frac{3}{4} \right) * \left( \frac{4}{5} \right)$$

► FRAC

$$\frac{3}{5}x - \frac{3}{2} = \frac{11}{4}$$

$$+ \frac{3}{2}$$

$$\frac{3}{5}x = \frac{17}{4}$$

$$\left( \frac{17}{4} \right) \div \left( \frac{3}{5} \right)$$

► FRAC

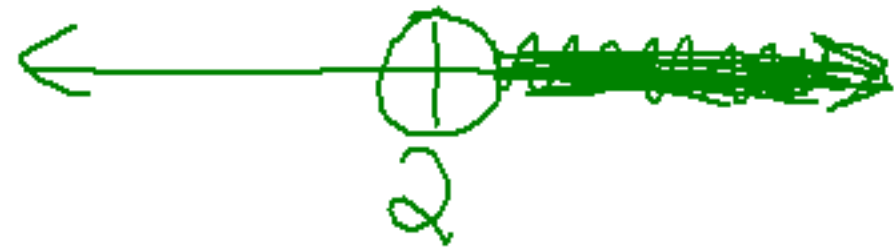
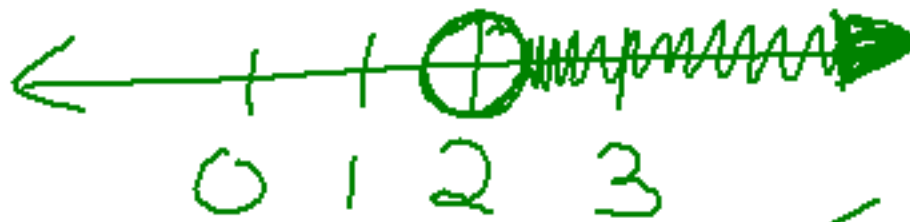
$$x = \frac{85}{12}$$

# Linear Inequalities

$$x = 2$$



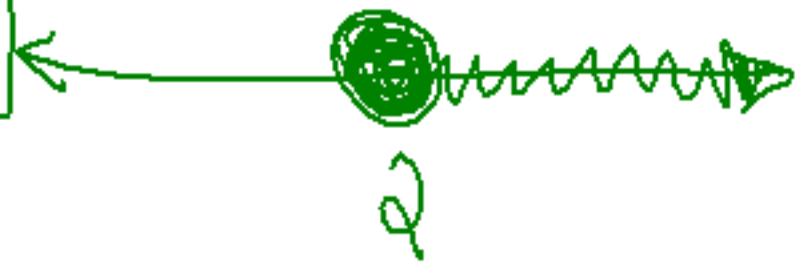
$$x > 2$$



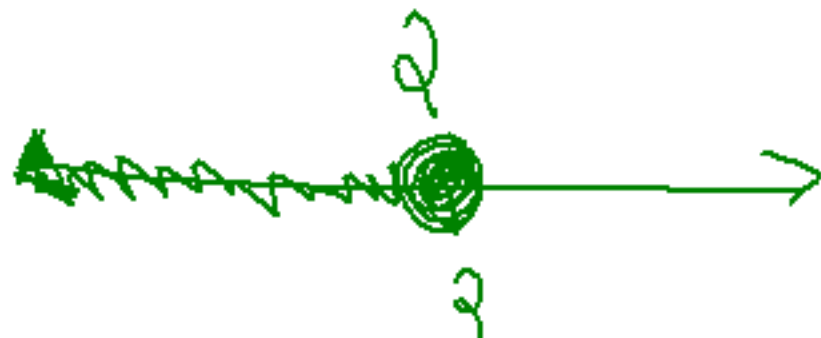
$$x < 2$$



$$x \geq 2$$



$$x \leq 2$$



$$\text{Ex: } \frac{3x}{3} > \frac{-18}{3}$$

$$\boxed{x > -6}$$



$$\text{Ex: } \frac{-4x}{-4} > \frac{20}{-4}$$

$$\boxed{x < -5}$$



$$\text{Ex: } 8(2-x) \leq -4(x-5)$$

$$16 - 8x \leq -4x + 20$$

$\begin{array}{ccc} +8x & & +8x \end{array}$

$$16 \leq 4x + 20$$

$\begin{array}{ccc} -20 & & -20 \end{array}$

$$\frac{-4}{4} \leq \frac{4x}{4}$$

$$\boxed{-1 \leq x}$$

